

#### ABSTRACT OF DISCLOSURE

A power supply having a rectifying circuit rectifying AC power; an inverting part inverting the power rectified and supplying the inverted AC power to a load, and including first and second bridges connected to ends of the rectifying circuit and having respective pairs of switching units serially connected to each other, comprising: a control voltage signal generating part outputting a control voltage signal having values corresponding to positive and negative values to control the AC power supplied from the inverting part to the load; a switching controller controlling, when the control voltage signal is determined to correspond to positive values, one of the switching units of the first bridge to turn off and a remaining one of the switching units thereof to turn on, and controlling the switching units of the second bridge to alternately turn on and turn off corresponding to which one of an absolute value of the control voltage signal and of a predetermined comparison voltage signal is greater.